Art Unit: 1634

CLMPTO

C. DESSAU

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CLAIMS 1-16 HAVE BEEN CANCELLED

- 17. A tumor cell composition comprising a tumor cell modified to express a B7-2 protein and at least one additional immune modulator, or a functional fragment of said B7-2 protein or said immune modulator.
- 18. The tumor cell composition according to claim 17, wherein said at least one additional immune modulator is a cytokine protein.
- 19. The tumor cell composition according to claim 18, wherein said cytokine protein is selected from the group consisting of interleukin 2, interleukin 4, interleukin 6, interleukin 7, interleukin 12, granulocyte-macrophage colony stimulating factor, granulocyte colony stimulating factor, interferon-gamma, and tumor necrosis factor-alpha.

Application/Control Number: 10/785,577

Art Unit: 1634

Page 3

20. The tumor cell composition according to claim 18, wherein said cytokine protein is granulocyte-macrophage colony stimulating factor.

- 21. An expression vector comprising a polynucleotide sequence encoding a B7-2 protein and at least one additional immune modulating protein, or a functional fragment of said B7-2 protein or said immune modulator.
- 22. The expression vector according to claim 21, wherein said at least one additional immune modulating protein is a cytokine protein.
- 23. The expression vector according to claim 22, wherein said cytokine protein is selected from the group consisting of interleukin 2, interleukin 4, interleukin 6, interleukin 7, interleukin 12, granulocyte-macrophage colony stimulating factor, granulocyte colony stimulating factor, interferon-gamma, and tumor necrosis factor-alpha.
- 24. The expression vector according to claim 22, wherein said cytokine protein is granulocyte-macrophage colony stimulating factor.
- 25. The expression vector according to claim 21, wherein said expression vector is a viral vector.
- 26. The expression vector according to claim 25, wherein said viral vector is a retroviral vector.
- 27. The expression vector according to claim 25, wherein said viral vector is an adenoviral vector.

Application/Control Number: 10/785,577

Art Unit: 1634

Page 4

- 28. The expression vector according to claim 21, wherein said expression vector is encapsulated by, or complexed with, a liposome.
 - 29. A method for the treatment or prevention of cancer comprising:
 - a) providing a polynucleotide encoding a B7-2 protein and at least one additional immune modulator, or a functional fragment of said B7-2 protein or said immune modulator;
 - b) transferring said polynucleotide into cancer cells under conditions such that said B7-2 protein and said immune modulator are expressed by at least a portion of said cancer cells; and
 - administering an effective amount of the modified cancer cells of step b) to
 a patient.
- 30. The method according to claim 29 further comprising irradiating said cancer cells expressing said B7-2 protein and said immune modulator prior to administering said irradiated cancer cells into said patient.
- 31. The method according to claim 30, further comprising introducing at least one additional dose of irradiated cancer cells expressing said B7-2 protein and said immune modulator into said immunized subject.
- 32. The method according to claim 29, wherein said at least one additional immune modulator is a cytokine protein.

Application/Control Number: 10/785,577

Art Unit: 1634

Page 5

33. The method according to claim 32, wherein said cytokine protein is selected from the group consisting of interleukin 2, interleukin 4, interleukin 6, interleukin 7, interleukin 12, granulocyte-macrophage colony stimulating factor, granulocyte colony stimulating factor, interferon-gamma, and tumor necrosis factor-alpha.

- 34. The method according to claim 32, wherein said cytokine protein is granulocyte-macrophage colony stimulating factor.
- 35. The method according to claim 29, wherein said polynucleotide is transferred by a viral vector.
- 36. The method according to claim 35, wherein said viral vector is a retroviral vector.
- 37. The method according to claim 35, wherein said viral vector is an adenoviral vector.
- 38. The method according to claim 29, wherein said polynucleotide is encapsulated by, or complexed with, a liposome.
- 39. The method according to claim 29, wherein said cancer cells are from a solid tumor.
- 40. The method according to claim 29, wherein said cancer cells are from a brain tumor.

Page 6

Application/Control Number: 10/785,577

Art Unit: 1634

41. The method according to claim 40, wherein said brain tumor is a glioblastoma.

42. The method according to claim 29, wherein said cancer cells are from a melanoma.

- 43. A method for the treatment or prevention of cancer comprising administering to a subject in need thereof an effective amount of a tumor vaccine comprising a tumor cell modified to express a B7-2 protein and at least one additional immune modulator, or a functional fragment of said B7-2 protein or said immune modulator.
- 44. The method according to claim 43, wherein said at least one additional immune modulator is a cytokine protein.
 - 45. The method according to claim 44, wherein said cytokine protein is selected from the group consisting of interleukin 2, interleukin 4, interleukin 6, interleukin 7, interleukin 12, granulocyte-macrophage colony stimulating factor, granulocyte colony stimulating factor, interferon-gamma, and tumor necrosis factor-alpha.
- 46. The method according to claim 43, wherein said cytokine protein is granulocyte-macrophage colony stimulating factor.
 - 47. The method according to claim 43, wherein said cancer cells are from a tumor.
 - 48. The method according to claim 43, wherein said cancer cells are from a brain tumor.

Application/Control Number: 10/785,577 Page 7

Art Unit: 1634

49. The method according to claim 48, wherein said brain tumor is a glioblastoma.

50. The method according to claim 43, wherein said cancer cells are from a melanoma.